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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/711,644	09/29/2004	Wei Lu	FIS920040037US1 5643		
29371 7:	590 12/07/2005	EXAMINER		INER	
CANTOR COLBURN LLP			YANTORNO, JENNIFER M		
55 GRIFFIN R			ART UNIT	PAPER NUMBER	
BLOOMFIELD, CT 06002			2881	TALLANOMBER	

DATE MAILED: 12/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	1	Н				
	Application No.	Applicant(s)				
Office Action Comment	10/711,644	LU, WEI				
Office Action Summary	Examiner	Art Unit				
	Jennifer Yantorno	2881				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) ☐ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-16 is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-16</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) ☐ The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on 18 November 2004 is/a	re: a)⊠ accepted or b)⊡ objec	ted to by the Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	•	• • • • • • • • • • • • • • • • • • • •				
11) The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)-(d) or (f).				
1. Certified copies of the priority document	s have been received.					
2. Certified copies of the priority document	s have been received in Applicat	ion No				
Copies of the certified copies of the prior	rity documents have been receive	ed in this National Stage				
application from the International Bureau						
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
(
Attachment(s)		•				
1) Notice of References Cited (PTO-892)	4) Interview Summary					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 9/29/04. 	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5, 8-13, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chang et al. (US 6,646,259 B2).

Regarding claims 1, 2, and 9, '259 teaches a method for preparing a specimen for application of microanalysis thereto comprising forming an initial conductive layer over an area of interest, removing a volume of material surrounding the area of interest by forming a pair of trenches in a bulk material shave the area of interest formed thereon, thereby forming a membrane including the area of interest sand the initial conductive layer over the area interest, and removing the membrane form the bulk material (Col. 3, II. 23-33, Col. 4, II. 7-17). '259 teaches that the method of forming the conductive layer is physical vapor deposition, not low-energy electron beam deposition, but it is notoriously known that these two application methods are analogous in the art.

Regarding claims 3 and 11, '259 teaches that the conductive later is made of platinum (Col. 3, II. 26-30).

Regarding claims 4 and 12, '259 teaches that the conductive layer is formed at a thickness of up to 20 nm (Col 3, II. 41-43).

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Regarding claims 5 and 13, '259 teaches that the conductive layer is form over an area of about 1 micron by about 10 microns (Col 4, II. 7-12).

Regarding claims 8 and 16, '259 teaches removing a volume of material surrounding the area of interest is implemented by FIB milling (Col. 4, II. 7-12)

Regarding claim 10, '259 teaches that the microanalysis comprises tunneling electron microscopy (Col. 4, II. 7-12).

Claims 6, 7, 14, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chang et al. (US 6,646,259 B2), in view of Engelmann et al. (US 6,303,399 B1).

Regarding claims 6, 7, 14, and 15, the aforementioned prior art meets all claim limitation with the exception of implementing high-energy ion beam deposition for thickening the initial conductive layer. '399 teaches implementing high-energy ion beam deposition for the conductive layer (Col. 5, II. 55-59). It would have been obvious to one skilled in the art at the time of the invention to implementing high-energy ion beam deposition for thickening the initial conductive layer as this method is notoriously known in the art.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer Yantorno whose telephone number is (571) 272-5918. The examiner can normally be reached on Monday-Friday, 9 am - 5 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Lee can be reached on (571) 272-2477. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JY

JOHN R. LEE

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800